



# Green Island Levee and Drainage District Non-Structural Alternative Project

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG ®

## Location

Jackson County, Iowa

## State(s)

IA

## Congressional District(s)

IA-1

## Status

The Green Island Levee suffered two 200'+ breaches during the July 2010 Maquoketa River flood event. At the time of breaching the Green Island levee was active in the Corps PL 84-99 program. The Corps estimated cost to repair the levee was \$607,942. The benefit-to-cost ratio (B/C ratio) for repairing the levee was calculated to be 0.66. The Corps will not repair P.L. 84-99 program levees if the B/C ratio is <1.0. However PL 84-99 does provide funding authority, using a formula based on the repair cost estimate, to support the implementation of a non-structural alternative project (NSAP) if requested by the levee sponsor. Following the Corps determination of a B/C ratio of <1.0 the Jackson County Board of Supervisors expressed interest in a NSAP. The Natural Resources Conservation Service (NRCS) developed and submitted a Mississippi River Basin (MRBI) Wetlands Reserve and Enhancement Program (WREP) proposal to fund the acquisition of permanent easements on over 1,200 acres along the lower Maquoketa River, to include most of the lands previously protected by the Green Island levee. That proposal has been funded and the NRCS is moving forward with its easement acquisition project.

## Description

The Green Island Levee and Drainage District is located in Jackson County, Iowa, near the confluence of the Maquoketa and Mississippi Rivers. The Green Island Unit was designed to provide protection to the 25 year (4% chance) flood frequency event. The levee was protecting ~1,363 acres of row crop agricultural land. The levee received P.L. 84-99 repair assistance in 1970, 1973, 1975, 1985, 1986, 1993, 2001, and 2008.

## Major Work Item (This Fiscal Year)

FY15 - Prepare and execute Cooperation Agreement with the IA DNR. Initiate real estate pre-acquisition requirements (appraisal, title evidence, surveying, etc). The NSAP may also address the acquisition of the residual value of certain NRCS permanent easement acres so that they can be managed as public lands by the adjacent State conservation area.

## Major Work Item (Next Fiscal Year)

FY16 - Complete NSAP implementation, consistent with available funding, to include reimbursement of the IA DNR for acquisition costs..

## Authority Details

Emergency Flood Control Funds Act of 1955 (Public Law 84-99)



# **Green Island Levee and Drainage District Non-Structural Alternative Project**

---

**U.S. ARMY CORPS OF ENGINEERS**

**BUILDING STRONG ®**

**Point of Contact:** Project Manager  
**Phone:** (309) 794-5432  
**Email:** cemvr-pm-web@usace.army.mil

---

**U.S. ARMY CORPS OF ENGINEERS - ROCK ISLAND DISTRICT**

CLOCK TOWER BLDG. - P.O. BOX 2004 - ROCK ISLAND, IL 61204-2004

[www.mvr.usace.army.mil](http://www.mvr.usace.army.mil)